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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: GALFORD, et al. Confirmation No.: 3412

Serial No.: 11/029,811 Art Unit: 2859

Filed: January 4, 2005 Examiner: SHRIVASTAV, BRIJ B.

For: METHOD AND APPARATUS Attorney Docket No.: 7420-132-999  
FOR DETECTING (020243-999131)  
HYDROCARBONS WITH NMR  
LOGS IN WELLS DRILLED  
WITH OIL-BASED MUDS

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

08/18/2006 BABRAHA1 00000009 503013 11029811  
01 FC:1606 100.00 DA

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

## 1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ A list of all patents, publications, applications, or other information submitted for consideration by the office.
- 1b. A legible copy of:
- ☒ Each publication or that portion which caused it to be listed on the PTO-1449;
  - ☐ For each cited pending unpublished U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion that have been checked to be unavailable at the USPTO's private PAIR system;
  - ☒ An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report;
  - ☐ Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications;
  - ☐ All other information or portion which caused it to be listed on the PTO-1449.
- 1c. ☒ Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the cited U.S. patents and U.S. patent application publications are not submitted herewith unless required by the office.
- 1d. ☐ Pursuant to 1287 OG 163, copies of cited pending unpublished applications that are available at the USPTO's private PAIR system are not submitted herewith.

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2. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):
- ☐ Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
  - ☐ Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
  - ☐ Before the mailing of the first Office action on the merits;
  - ☐ Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3. ☒ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.

*(Check either Item 3a or 3b)*

- 3a. ☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
- 3b. ☒ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is:
- ☐ enclosed.
  - ☒ to be charged to Jones Day Deposit Account No. 50-3013.

*(Item 3b to be checked if any reference known for more than 3 months)*

4. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.

The Certification Statement in Item 5 below is applicable.

The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:

- ☐ enclosed.
- ☐ to be charged to Jones Day Deposit Account No. 50-3013.

5. ☐ Certification Statement (applicable if Item 3a or Item 4 is checked):

*(Check either Item 5a or 5b)*

- 5a. ☐ In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- 5b. ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not **received** by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 5c. ☐ Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not

received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.

6. ☐ This application is a continuation application under 37 C.F.R. §1.53(b) or (d).

*(Check appropriate Items 6a, 6b and/or 6c)*

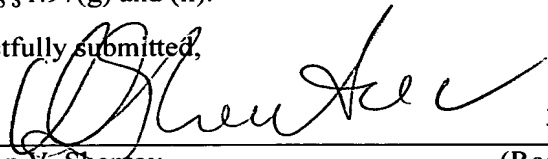
- 6a. ☐ A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
- 6b. ☐ Copies of publications listed on Form PTO-1449 from prior application Serial No. , filed on , of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
- 6c. ☐ Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. , filed on , and are provided herewith.
7. ☐ This is a Supplemental Information Disclosure Statement. (Check Item 7a)
- 7a. ☐ This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on . A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on .
8. ☐ In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

*( Check Item 8a, 8b, or 8c)*

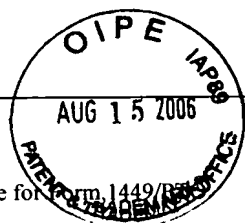
- 8a. ☐ Satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
- 8b. ☐ Set forth in the application.
- 8c. ☐ Enclosed as an attachment hereto.
9. ☒ The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Jones Day Deposit Account No. 50-3013.
10. ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability and no representation is made that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).

Respectfully submitted,

Date: August 15, 2006

  
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Substitute for Form 1449/ISS-001

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
 (Use several sheets if necessary)

 ATTY DOCKET NO.  
 7420-132-999  
 (020243-999131)

 APPLICATION NO.  
 11/029,811

 APPLICANT:  
 GOLFORD, et al.

 FILING DATE:  
 January 4, 2005

ART UNIT: 2859      CONF. NO.: 3412

**U.S. PATENT DOCUMENTS**

EXAMINER'S INITIALS*		DOCUMENT NUMBER	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01	4,350,955	09/21/1982	JACKSON, et al.	
	A02	4,629,986	12/16/1986	CLOW, et al.	
	A03	4,710,713	12/1/1987	STRIKMAN; SHMUEL	
	A04	4,717,876	01/05/1988	MASI, et al.	
	A05	4,717,877	01/05/1988	TAICHER, et al.	
	A06	4,717,878	01/05/1988	TAICHER, et al.	
	A07	4,933,638	06/12/1990	KLEINBERG, et al.	
	A08	4,939,648	07/03/1990	O'NEILL, et al.	
	A09	5,023,551	06/11/1991	KLEINBERG, et al.	
	A10	5,055,787	10/08/1991	KLEINBERG, et al.	
	A11	5,055,788	10/08/1991	KLEINBERG, et al.	
	A12	5,212,447	05/18/1993	PALTIEL; ZVI	
	A13	5,280,243	01/18/1994	MILLER; MELVIN	
	A14	5,309,098	05/03/1994	COATES, et al.	
	A15	5,412,320	05/02/1995	COATES; GEORGE R.	
	A16	5,517,115	05/14/1996	PRAMMER; MANFRED G.	
	A17	5,557,200	09/17/1996	COATES; GEORGE R.	
	A18	5,557,201	09/17/1996	KLEINBERG, et al.	
	A19	5,680,043	10/21/1997	HURLIMANN, et al.	
	A20	5,712,566	01/27/1998	TAICHER, et al.	
	A21	5,757,186	05/26/1998	TAICHER, et al.	
	A22	5,796,252	08/18/1998	KLEINBERG, et al.	
	A23	5,834,936	11/10/1998	TAICHER, et al.	
	A24	5,936,405	08/10/1999	PRAMMER, et al.	
	A25	5,959,453	09/28/1999	TAICHER, et al.	
	A26	5,977,768	11/02/1999	SEZGINER, et al.	
	A27	6,005,389	12/21/1999	PRAMMER; MANFRED G.	
	A28	6,008,646	12/28/1999	GRIFFIN, et al.	
	A29	6,018,243	01/25/2000	TAICHER, et al.	
	A30	6,023,164	02/08/2000	PRAMMER; MANFRED	

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for Form 1449/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO. 7420-132-999 (020243-999131)	APPLICATION NO. 11/029,811
	APPLICANT: GALFORD, et al.	
	FILING DATE: January 4, 2005	ART UNIT:      CONF. NO.: 2859              3412

	A31	6,051,973	04/18/2000	PRAMMER; MANFRED	
	A32	6,111,408	08/29/2000	BLADES, et al.	
	A33	6,118,272	09/12/2000	TAICHER, et al.	
	A34	6,121,773	09/19/2000	TAICHER, et al.	
	A35	6,140,817	10/31/2000	FLAUM, et al.	
	A36	6,232,778	05/15/2001	SPEIER, et al.	
	A37	6,242,913	06/05/2001	PRAMMER; MANFRED	
	A38	6,246,236	06/12/2001	POITZSCH, et al.	
	A39	6,255,819	07/03/2001	DAY, et al.	
	A40	6,268,726	07/31/2001	PRAMMER, et al.	
	A41	6,344,744	02/05/2002	TAICHER, et al.	
	A42	6,362,619	03/26/2002	PRAMMER, et al.	
	A43	6,512,371	01/28/2003	PRAMMER; MANFRED	
	A44	6,525,534	02/25/2003	AKKURT, et al.	
	A45	6,531,868	03/11/2003	PRAMMER; MANFRED	
	A46	6,541,969	04/01/2003	SIGAL, et al.	
	A47	6,559,640	05/06/2003	TAICHER; GERSH ZVI	
	A48	6,563,314	05/13/2003	KLEINBERG; ROBERT L.	
	A49	6,577,125	06/10/2003	PRAMMER, et al.	
	A50	6,583,621	06/24/2003	PRAMMER, et al.	
	A51	6,586,931	07/01/2003	TAICHER; GERSH ZVI	
	A52	6,646,437	11/11/2003	CHITALE, et al.	
	A53	6,717,404	04/06/2004	PRAMMER; MANFRED	
	A54	20020163334	11/07/2002	HAGIWARA; TERUHIKO	
	A55	20040055400	03/25/2004	RINGGENBERG, et al.	
	A56	20050030021	02/10/2005	PRAMMER, et al.	
	A57	20050104587	05/19/2005	AKKURT; RIDVAN	
	A58	20050116709	06/02/2005	PROETT, et al.	

### FOREIGN PATENT DOCUMENTS

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	APPLICANT: GALFORD, et al.	
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EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
						YES	NO
	B01						
	B02						

**NON PATENT LITERATURE DOCUMENTS** (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume, publisher, city and/or country where published., etc.)

EXAMINER'S INITIALS*		
	C01	PRAMMER, et al., "Lithology-Independent Gas Detection by Gradient NMR Logging," Society of Petroleum Engineers, paper SPE-30562, published in the transactions to the 1995 SPE Annual Technical Conference & Exhibition, pp. 325-336.
	C02	COATES, et al., "NMR Logging: Principles and Applications," Chapters 1, 2 and 5, Gulf Publishing Company, 2000.
	C03	PCT, INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY, July 10, 2006.

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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